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Read December 1, 1769.

LVI. *Eclipses of Jupiter's First Satellite,
with an Eighteen Inch Reflector of Mr.
Short's. Observed by Dr. Wilson at the
Glasgow Observatory.*

	Equal time.	Apparent.							
		h	'	"	h	'	"	"	
1762	Sept. 11 Im.	10	55	33	21	10	55	33	21
	Oct. 4 Im.	11	1	58	—	11	13	22	21
	Nov. 14 Em.	6	8	33	—	6	23	43	55
1763	21 Em.	8	1	31	38	8	16	39	good [ly clear.
	Oct. 23 Im.	12	50	24	—	13	5	56	53 good, air extreme-
	Nov. 1 Im.	9	12	18	43	9	28	29	18 good, like the for-
1764	Oct. 25 Im.	16	8	48	—	16	24	40	indif. good. [mer.
1765	Febr. 14 Em.	6	18	28	—	6	3	55	good.
	March 7 Em.	12	2	24	—	11	51	29	good.
	Nov. 29 Im.				—	15	53	26	indifferent.
1766	Dec. 22 Im.	15	54	4	—	15	54	25	indifferent.
	April 20	8	4	23	—	8	5	41	15 good.

Solar Eclipse.	h	'	"	h	'	"
1769 March 31 Beginning	20	58	16	20	54	15
Gr. obs.	22	19	3	22	15	2
End	23	46	55	23	42	52

1769 Nov. 6	Alt. of J's	Parts of 96.
J's west. limb. Merid.	under limb.	° " parts.
h, ' , "	° , " "	° , " parts.

6 52 6 20 47 36+ 22 1 14

Barom.	inches	without.	Ther.	This is the only one of the Moon since the quadrant was in order.
29,66	49 46	—	—	—

N. B. The equation of time made use of, is taken from De la Caille's Ephemeris.

Obser.

*Observations of Eclipses of Jupiter's First Satellite,
proper to be compared with the foregoing ones, in or-
der to determine the Difference of Meridians of
Greenwich and Glasgow. Communicated by the
Astronomer Royal.*

				App. time.
				h ' "
1762	Sept. 11	Im.	11 12 43	Surry-street, 2 feet reflector. By N. Maskelyne.
	Oct. 4	Im.	11 31 1	Surry-street, 2 f. ref. Observed by J. Short.
	Nov. 3	Em.	15 56 57 $\frac{1}{2}$	Greenwich, 6 f. ref. By C. Green.
	Nov. 12	Em.	12 10 56	Surry-str. 2f. ref. By J. Short.
1763	Oct. 16	Im.	11 27 39	Surry-str. 2 f. ref. By J. Short.
	Nov. 1	Im.	9 45 25	Surry-str. 2 f. ref. By J. Short.
1764	Nov. 4	Im.	13 3 37	Greenwich, 2 f. ref. By C. Green.
	Nov. 10	Im.	14 57 11	Greenwich, 6 f. ref. By C. Green.
1765	Feb. 19	Em.	13 46 42	Greenwich, 6 f. ref. By C. Green, good observation.
	Dec. 1	Im.	10 40 11	Greenw. 18 inch ref. }
	8	Im.	12 31 34	Greenw. 6 f. ref. Air very clear. } By N.
	15	Im.	14 22 3	Greenw. 6 f. ref. }
	22	Im.	16 12 19	Greenw. 6 f. ref. Maskelyne }
	24	Im.	10 39 27	Greenw. 6 f. ref. }
1766	April 11	Em.	11 56 30	Greenw. 6 f. ref. By J. Dymond.

N. B. The late Mr. Short's house, in Surry-street, where some of the above observations were made, is 26'' $\frac{1}{2}$ of time west of Greenwich.